



Simplifying Fraction Exponent Expressions (Division)

Name: _____

Date: _____ Score: _____

$$\left(\frac{2}{3}\right)^5 \cdot \left(\frac{2}{3}\right)^{-5} \cdot \left(\frac{2}{3}\right)^3$$

$$\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^{11}$$

$$\left(\frac{1}{7}\right)^4 \cdot \left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^3$$

$$\left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^9$$

$$\frac{\left(\frac{1}{5}\right)^3 \cdot \left(\frac{1}{5}\right)^{-5} \cdot \left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^{-9}}{\left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{-5}}$$

$$\left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^{-9} \cdot \left(\frac{2}{5}\right)$$

$$\frac{\left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^{-2} \cdot \left(\frac{2}{7}\right)^{-5} \cdot \left(\frac{2}{7}\right)^2}{\left(\frac{2}{7}\right)^{-3} \cdot \left(\frac{2}{7}\right)^{-4}}$$

$$\left(\frac{1}{7}\right)^{-7} \cdot \left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)^{-8}$$

$$\frac{\left(\frac{1}{6}\right)^{-6} \cdot \left(\frac{1}{6}\right)^2 \cdot \left(\frac{1}{6}\right)^{-4}}{\left(\frac{1}{6}\right)}$$

$$\frac{\left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^{-4} \cdot \left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^7}{\left(\frac{4}{5}\right) \cdot \left(\frac{4}{5}\right)^{-4}}$$

$$\left(\frac{4}{9}\right)^3 \cdot \left(\frac{4}{9}\right)^9 \cdot \left(\frac{4}{9}\right)^{-10}$$

$$\frac{\left(\frac{4}{9}\right)^{11} \cdot \left(\frac{4}{9}\right)^{-3} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^3}{\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{-2}}$$

$$\frac{\left(\frac{1}{7}\right)^{-5} \cdot \left(\frac{1}{7}\right)^{-5} \cdot \left(\frac{1}{7}\right)^{-3}}{\left(\frac{1}{7}\right)^{-8}}$$

$$\left(\frac{3}{5}\right) \cdot \left(\frac{3}{5}\right)^{-3} \cdot \left(\frac{3}{5}\right)^8$$

$$\frac{\left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^4 \cdot \left(\frac{1}{2}\right)^{-6}}{\left(\frac{1}{2}\right)^{-2} \cdot \left(\frac{1}{2}\right)^{10}}$$



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$$\frac{\left(\frac{2}{3}\right)^5 \cdot \left(\frac{2}{3}\right)^{-5} \cdot \left(\frac{2}{3}\right)^3}{\left(\frac{2}{3}\right)^3}$$

$$\frac{\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^{11}}{\left(\frac{1}{2}\right)^0}$$

$$\frac{\left(\frac{1}{7}\right)^4 \cdot \left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^3}{\left(\frac{1}{7}\right)^{-3}}$$

$$\frac{\left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^9}{\left(\frac{1}{2}\right)^6}$$

$$\frac{\left(\frac{1}{5}\right)^3 \cdot \left(\frac{1}{5}\right)^{-5} \cdot \left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^{-9}}{\left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{-5}} \cdot \left(\frac{1}{5}\right)^2$$

$$\frac{\left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^{-9} \cdot \left(\frac{2}{5}\right)}{\left(\frac{2}{5}\right)^2}$$

$$\frac{\left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^{-2} \cdot \left(\frac{2}{7}\right)^{-5} \cdot \left(\frac{2}{7}\right)^2}{\left(\frac{2}{7}\right)^{-3} \cdot \left(\frac{2}{7}\right)^{-4}} \cdot \left(\frac{2}{7}\right)^7$$

$$\frac{\left(\frac{1}{7}\right)^{-7} \cdot \left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)^{-8}}{\left(\frac{1}{7}\right)^{-13}}$$

$$\frac{\left(\frac{1}{6}\right)^{-6} \cdot \left(\frac{1}{6}\right)^2 \cdot \left(\frac{1}{6}\right)^{-4}}{\left(\frac{1}{6}\right)} \cdot \left(\frac{1}{6}\right)^{-9}$$

$$\frac{\left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^{-4} \cdot \left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^7}{\left(\frac{4}{5}\right) \cdot \left(\frac{4}{5}\right)^{-4}} \cdot \left(\frac{4}{5}\right)^{-5}$$

$$\frac{\left(\frac{4}{9}\right)^3 \cdot \left(\frac{4}{9}\right)^9 \cdot \left(\frac{4}{9}\right)^{-10}}{\left(\frac{4}{9}\right)^2}$$

$$\frac{\left(\frac{4}{9}\right)^{11} \cdot \left(\frac{4}{9}\right)^{-3} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^3}{\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{-2}} \cdot \left(\frac{4}{9}\right)^{15}$$

$$\frac{\left(\frac{1}{7}\right)^{-5} \cdot \left(\frac{1}{7}\right)^{-5} \cdot \left(\frac{1}{7}\right)^{-3}}{\left(\frac{1}{7}\right)^{-8}} \cdot \left(\frac{1}{7}\right)^{-5}$$

$$\frac{\left(\frac{3}{5}\right) \cdot \left(\frac{3}{5}\right)^{-3} \cdot \left(\frac{3}{5}\right)^8}{\left(\frac{3}{5}\right)^6}$$

$$\frac{\left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^4 \cdot \left(\frac{1}{2}\right)^{-6}}{\left(\frac{1}{2}\right)^{-2} \cdot \left(\frac{1}{2}\right)^{10}} \cdot \left(\frac{1}{2}\right)^{-11}$$